

**WE CLAIM:**

1. A vacuum deaeration device comprising:  
a vacuum container; and  
a transmission film mounted in said vacuum container, said transmission film allowing only gas to pass and preventing liquid from being transmitted, pressure within said vacuum container being reduced to deaerate resolved gas from deaerated liquid through said transmission film, said transmission film being manufactured from a paste material mixture of a high volatility dispersion liquid composed of linear chain-like paraffin substances not containing any aromatic and olefin substances, and particle plastic substrate that is extruded and baked.

2. A vacuum deaeration device in accordance with claim 1, wherein said plastic substrate is polytetrafluoroethylene.

3. A vacuum deaeration device comprising:  
a vacuum container; and  
a transmission film mounted in said vacuum container, said transmission film allowing only gas to pass and preventing liquid from being transmitted, pressure with in said vacuum container being reduced to deaerate resolved gas from deaerated liquid <sup>through</sup> said transmission film, said transmission film being manufactured from a paste material mixture of a dispersion liquid composed of at least two substrates selected from the group consisting of n-hexane, n-heptane, and n-octane, not containing any aromatic and olefin substances, and particle plastic substrate that is extruded and baked.